



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80E1A4 BYPASS RATIO: 5.1
 UNIQUE ID NUMBER: 4GE080 PRESSURE RATIO (π_{oo}): 34.5
 COMBUSTOR: Standard
 ENGINE TYPE: TF RATED THRUST (F_{oo}) (kN): 297.4

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F _{oo} (g/kN) or SN	16.3	53.1	66.7	11.8
AS % OF ORIGINAL LIMIT	83.1	45.0	61.2	67.4
AS % OF CAEP/2 LIMIT (NO _x)			76.5	
AS % OF CAEP/4 LIMIT (NO _x)			87.8	
AS % OF CAEP/6 LIMIT (NO _x)			98.2	
AS % OF CAEP/8 LIMIT (NO _x)			112.8	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F _{oo})	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	2.904	0.06	0.34	43.15	10.1
CLIMB OUT	85	2.2	2.337	0.07	0.30	30.30	8.1
APPROACH	30	4.0	0.744	0.18	1.33	10.13	0.0
IDLE	7	26.0	0.227	10.35	38.09	4.62	0.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			963	3726	13860	18055	-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)				12.5	46.6	60.7	10.1
SIGMA (D _p /F _{oo} in g/kN, or SN)							
RANGE (D _p /F _{oo} in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.6-98.2
TEMPERATURE (K)	279-293
ABS HUMIDITY (kg/kg)	0.00457-0.00743

FUEL

SPEC	Jet A
H/C	1.94
AROM (%)	15.3

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: CF6 Eval Engineering
 TEST LOCATION: Site IIIB, PTO, Ohio
 TEST DATES: 13/01/1995-17/01/1995

NO_x REGULATION PARAGRAPH

	2.3.2 c) (CAEP/4)
x	2.3.2 d) (CAEP/6)
	2.3.2 e) (CAEP/8)

REMARKS

- GE Report TM95-17.
- Engine S/N 704/233 & 704/234
- Vol. II.
- NO_x levels in accordance with Part III, Chapter 2, 2.3.2 d) (CAEP/6)

Compliance with Fuel Venting requirements: -

('x' if complies, 'PR' if pre-regulation, '-' if information is not available)